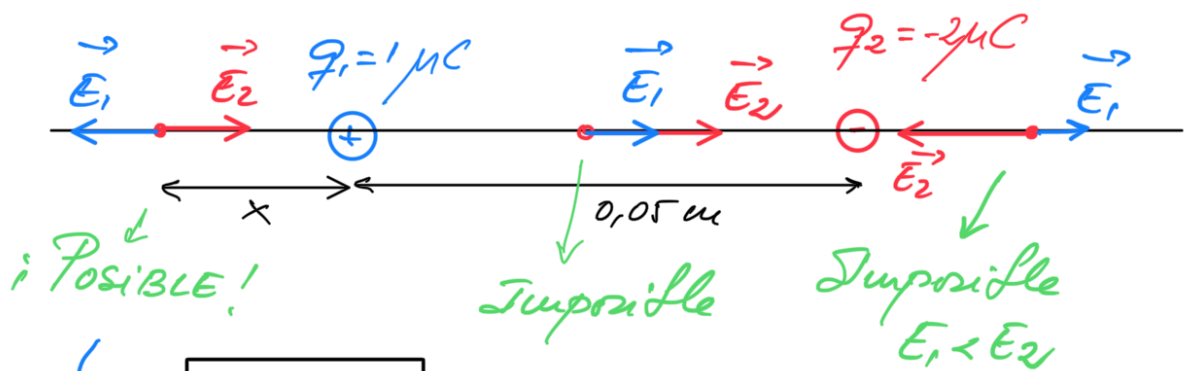


## EJERCICIO F2BE2439:



$$\hookrightarrow \boxed{E_1 = E_2}$$

$$K \frac{q_1}{x^2} = K \frac{q_2}{(0,05+x)^2} \Rightarrow \frac{q_1}{x^2} = \frac{q_2}{(0,05+x)^2}$$

$$\frac{1 \cdot 10^{-6}}{x^2} = \frac{2 \cdot 10^{-6}}{(0,05+x)^2}$$

$$(0,05+x)^2 = 2x^2$$

$$0,05+x = \sqrt{2}x$$

$$\sqrt{2}x - x = 0,05$$

$$x(\sqrt{2}-1) = 0,05$$

$$x = \frac{0,05}{\sqrt{2}-1} = \boxed{0,12 \text{ m}}$$

A la izquierda de  $q_1$ .